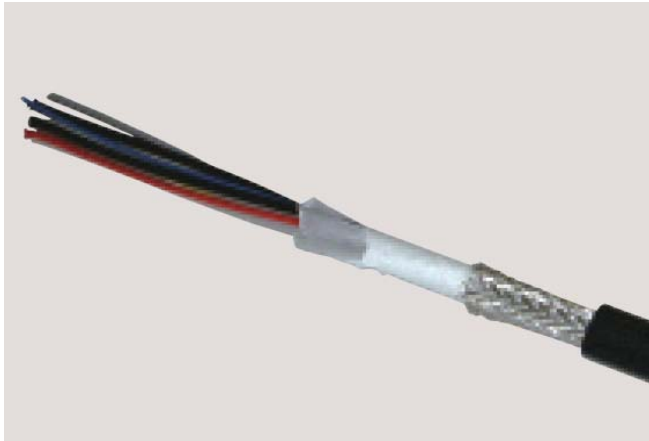


# LSOH riser & plenum grade HDTV hybrid fibre cable for installations



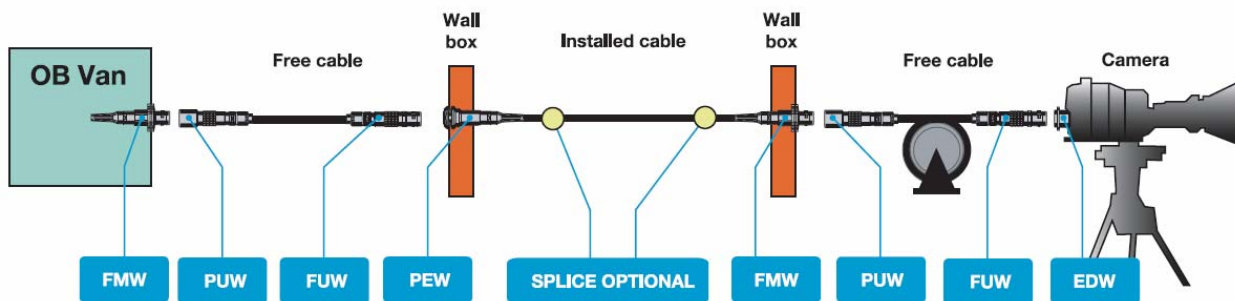
## LSOH RISER AND PLENUM GRADE HDTV CABLE

### Description

This LSOH hybrid fibre camera cable is designed for use in stadiums, studios and other installations, is constructed using specially selected fire resistant low smoke and zero halogen materials, meeting the 3 metre cubed smoke emission test. Combining power conductors, control wires and optical fibres for video and audio it is an ideal and safe choice for fixed wiring applications.

Suitable for both plenum and riser applications, the high tensile strength steel central member protects the cable when being installed and provides the necessary support.

Completion of installation can be made easy using fibre splicing, or in-connector splicing, and a series of installation components - splice trays, junction boxes, patchcords, etc. – are available from LEMO



LEMO (UK) Ltd  
Units 15 & 16 Hazelwood Trading Estate  
Worthing, West Sussex, BN14 8NP

Tel: 01903 234543  
Fax: 01903 206231  
Email: [uksales@lemo.com](mailto:uksales@lemo.com)



[www.lemo.co.uk](http://www.lemo.co.uk)

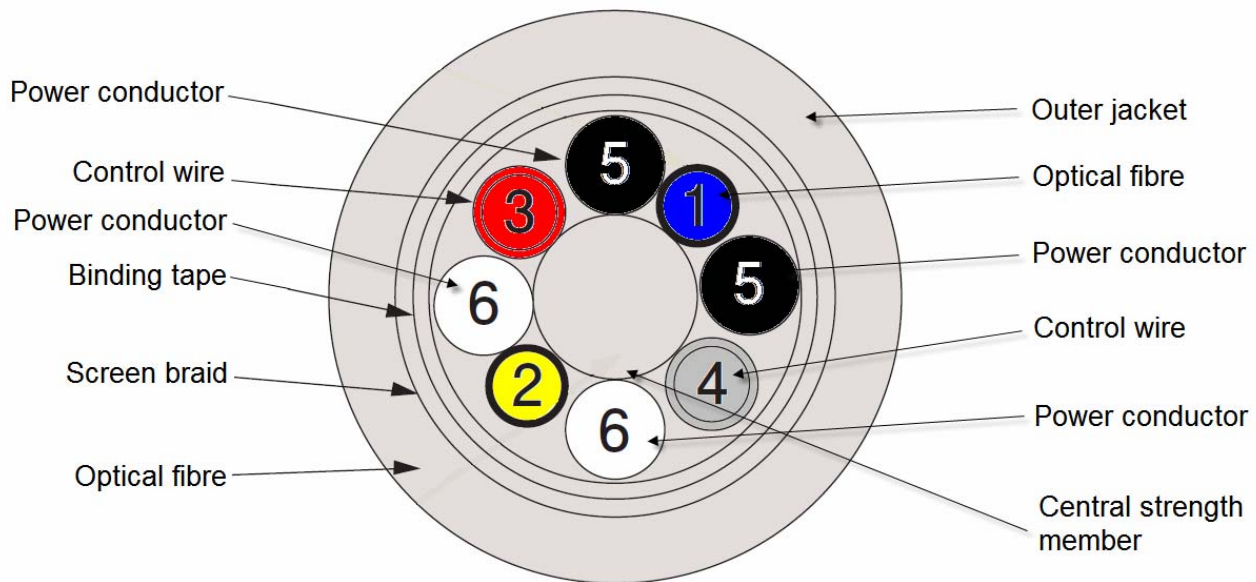
# LSOH FIRE RESISTANT HDTV FIBRE HYBRID CABLE

## Cable specification

Marking	TV-OM-LSZH			
Core type	Power	Control	Optic fibre	Strength member
No. of cores	4	2	2	1
Conductor sizes - AWG	20	24	-	-
Conductor construction - No/mm	21/0.18	7/0.203	-	19/0.36
Mode field diameter - $\mu\text{m}$	-	-	9.5 $\pm$ 1	-
Cladding diameter - $\mu\text{m}$	-	-	125 $\pm$ 1	-
Approx. diameter of conductor - mm	0.9	0.61	-	1.8
Nominal insulation thickness - mm	0.4	0.33	-	0.35
Approx. core diameter - mm	1.7	1.27	0.9 $\pm$ 0.05	2.5
Approx. thickness of tin-coated annealed copper braid - mm	0.3			
Nominal thickness of jacket - mm	1.2			
Approx. overall diameter - mm	9.2 $\pm$ 0.3			
Approx. net weight - g/m	120			
Max. conductor resistance - (20 <sup>o</sup> C) $\Omega$ /km	37.5	113	-	-
AC withstanding voltage - V/1min	2,000	2,000	-	-
Min. insulation resistance - (20 <sup>o</sup> C) M $\Omega$ km	10,000	10,000	-	-
UL listing	CMR-OF			
Allowable tension	700N			

## Optical fibre

Item	Condition	Characteristics	Conversion	
			Condition(km)	Formula
Transmission loss	$\lambda=1.31\mu\text{m}$	Maximum 0.5dB/km	Up to 0.4	0.2dB
			0.4 <	0.5 x length(km)



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